

METHOD AND APPARATUS FOR MONITORING LEFT VENTRICULAR WORK OR POWER

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ABSTRACT OF THE DISCLOSURE

10 A body implantable system employs a lead system having at least one
electrode and at least one thermal sensor at a distal end. The lead system is
implanted within a patient's heart in a coronary vein of the left ventricle. The
thermal sensor can be attached to a catheter that is disposed within an open
lumen of the lead system. The thermal sensor senses a coronary vein
15 temperature. The coronary vein temperature can be measured at a
detector/energy delivery system and used as an activity indicator to adaptively
control pacing rate. The measured coronary vein temperature can be also used
with a left ventricular flow measurement to determine hemodynamic efficiency of
the heart. A detected change in hemodynamic efficiency can be used by the
20 detector/energy delivery system to modify the delivery of electrical pulses to the
lead system.